



NEW JERSEY



QUADRANGLE LOCATION

REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
OF JERSEY CITY, AND WEEHAWKEN, NEW JERSEY

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

PENINSULA RESTORATION GROUP

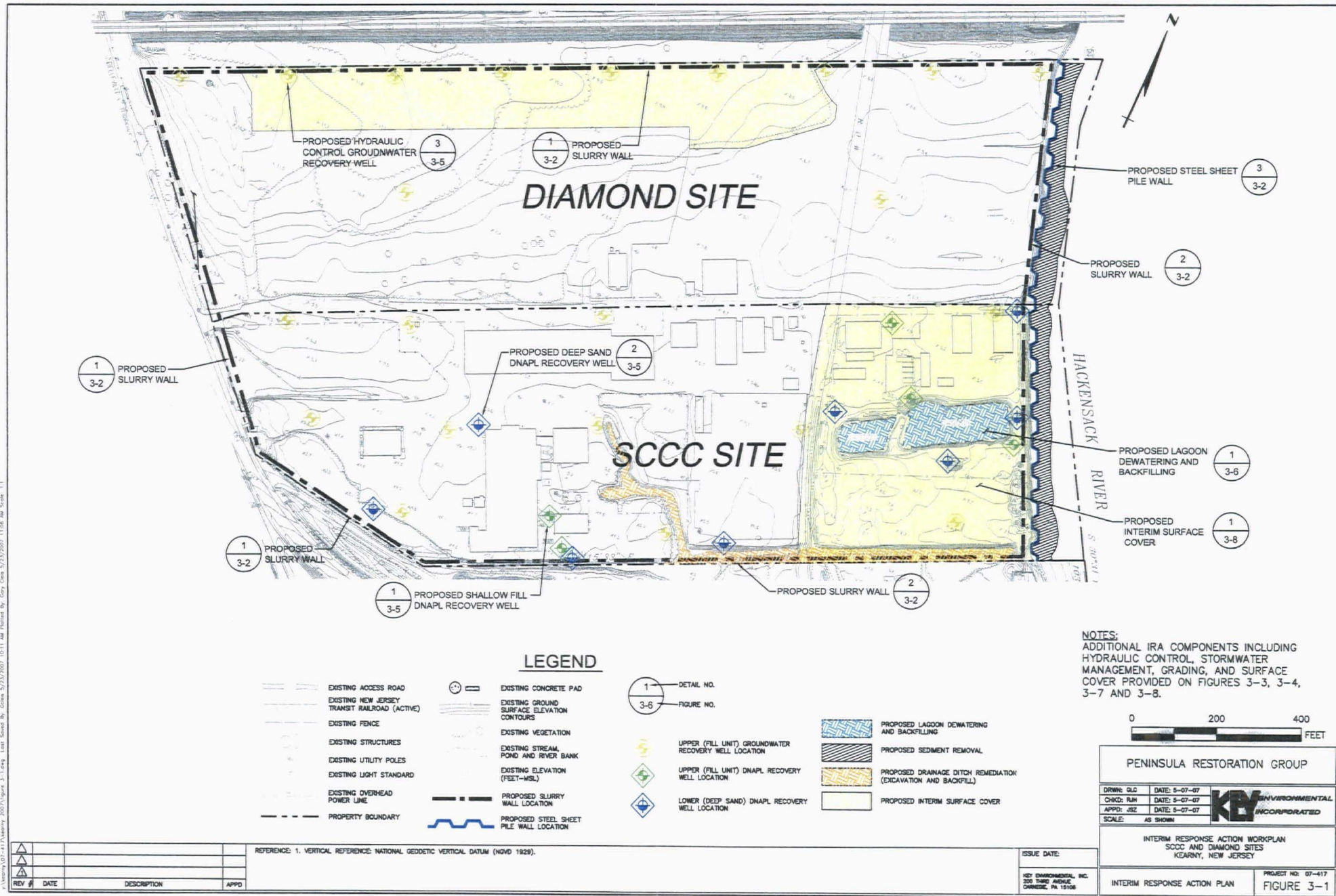
DRWN: GLC DATE: 5-09-07
CHKD: RJH DATE: 5-09-07
APPD: JSZ DATE: 5-09-07
SCALE: 1" = 2000'

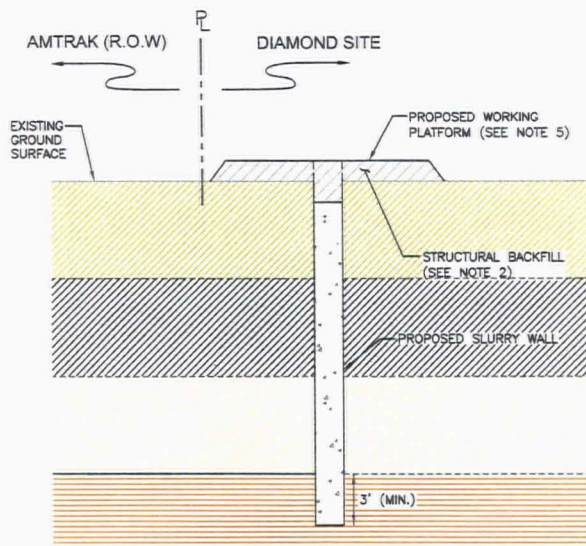
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INCORPORATED

INTERIM RESPONSE ACTION WORKPLAN
SCCC AND DIAMOND SITES
KEARNY, NEW JERSEY

SITE LOCATION MAP

PROJECT NO: 07-417
FIGURE 1-1

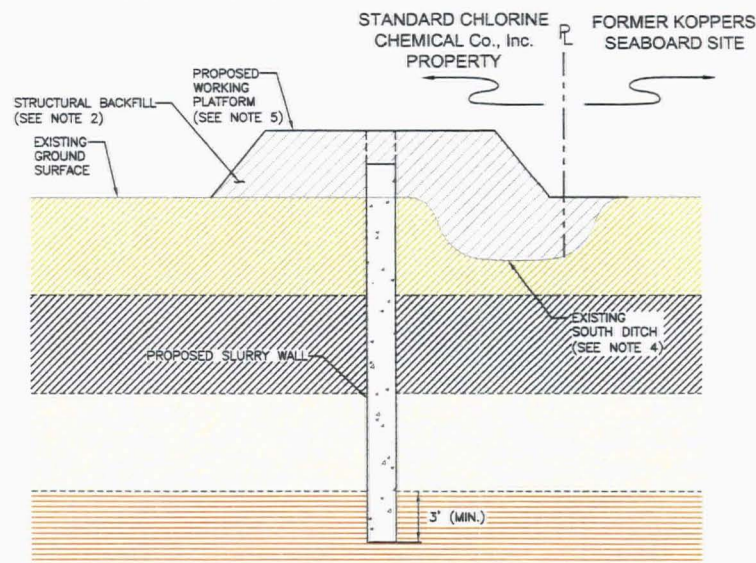




TYPICAL BARRIER WALL SECTION
NORTHERN AND WESTERN WALL

NOT TO SCALE

1
3-2



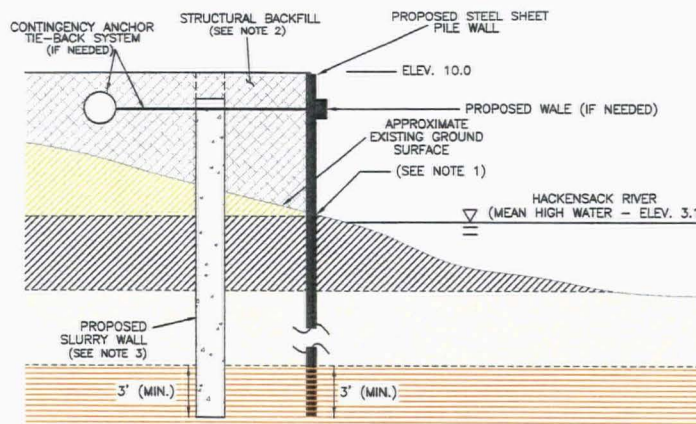
TYPICAL BARRIER WALL SECTION
SOUTHERN WALL

NOT TO SCALE

2
3-2

STEEL SHEET PILE WALL NOTES:

1. THE WALL WILL BE INSTALLED UPLAND OF THE MEAN HIGH WATER LINE. THE MEAN HIGH WATER LINE ELEVATION IS REPORTED TO BE 3.1 FEET MSL (NGVD 1929). THE MEAN HIGH WATER LINE ELEVATION WILL BE CONFIRMED AS PART OF THE DETAILED DESIGN.
2. STRUCTURAL BACKFILL WILL BE PLACED AS REQUIRED TO CONSTRUCT THE SLURRY WALL WORKING PLATFORM, AND TO SUPPORT THE ANCHOR TIE-BACK SYSTEM, IF NEEDED.
3. THE HORIZONTAL SEPARATION BETWEEN THE STEEL SHEET PILE WALL AND THE SLURRY WALL WILL BE THE MINIMUM DISTANCE NECESSARY TO FACILITATE CONSTRUCTION. THE TOP ELEVATION OF THE SLURRY WALL WILL BE AT LEAST ELEVATION 7.0 FEET MSL.
4. THE SOUTH DITCH IS LOCATED INSIDE THE PROPERTY LINE AT ITS EASTERN END. THE SOUTH DITCH STRADDLES THE PROPERTY LINE AT ITS WESTERN END. SEDIMENT WILL BE REMOVED AND THE DITCH BACKFILLED ALONG ITS ENTIRE LENGTH TO PROVIDE SUBGRADE FOR WORKING PLATFORM, AS REQUIRED.
5. WORKING PLATFORM SHALL BE WIDENED AS REQUIRED TO PROVIDE FOR MIXING OF SOIL-BENTONITE BACKFILL ADJACENT TO THE SLURRY TRENCH, AT THE DISCRETION OF THE ENGINEER.



TYPICAL BARRIER WALL SECTION
SECTION - RIVERSIDE WALL

NOT TO SCALE

3
3-2

LEGEND

	FILL MATERIAL
	MEADOW MAT
	DEEPER FINE SAND
	VARVED CLAY

PENINSULA RESTORATION GROUP

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SCALE: AS SHOWN		

INTERIM RESPONSE ACTION WORKPLAN
SCCC AND DIAMOND SITES
KEARNY, NEW JERSEY

BARRIER WALL DETAILS

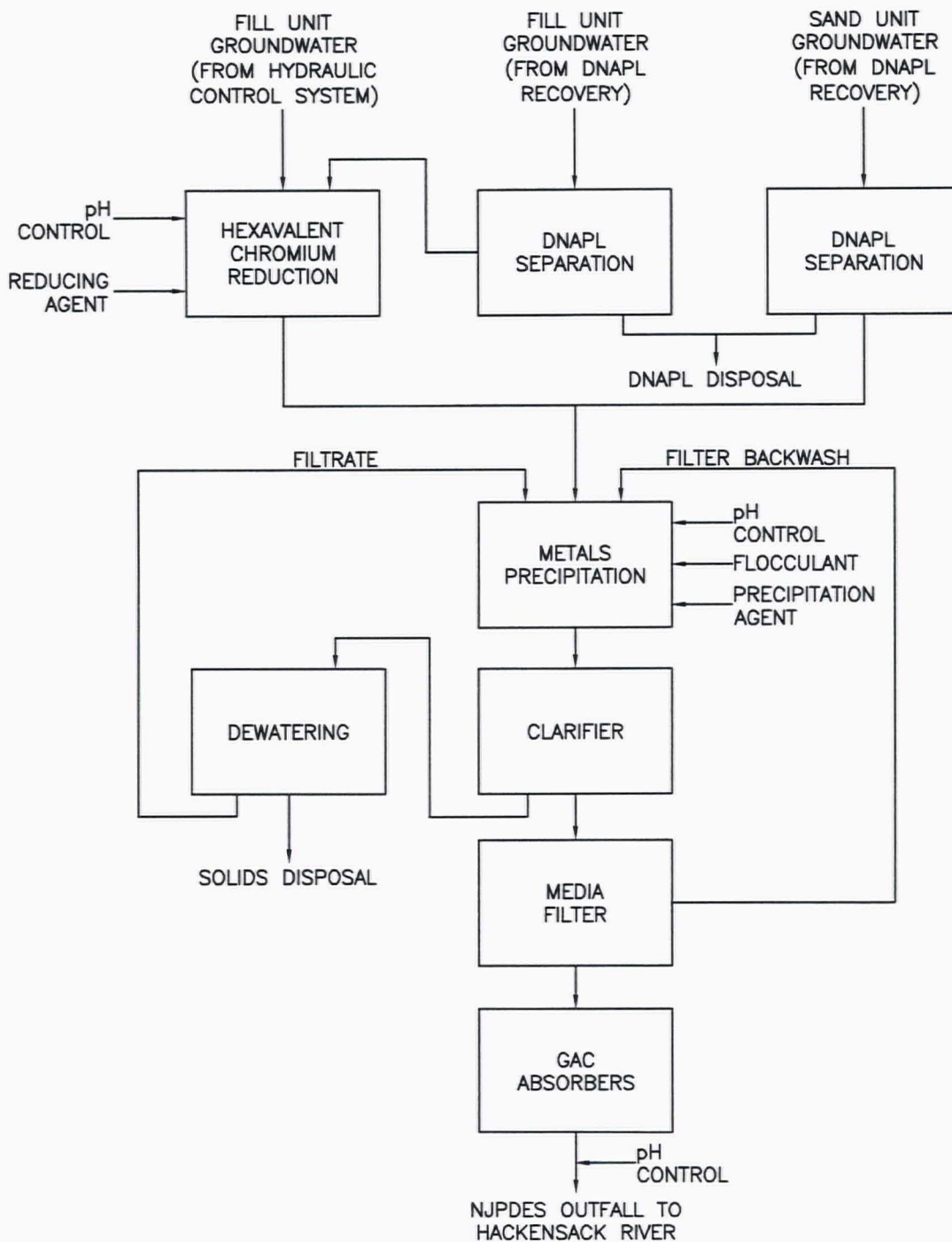
PROJECT NO: 07-417
FIGURE 3-2

REFERENCE: 1. VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

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200 THIRD AVENUE
CARLETON, PA 15106

REV #	DATE	DESCRIPTION	APPRO



PROCESS FLOW DIAGRAM - GROUNDWATER TREATMENT

1

3-4

PENINSULA RESTORATION GROUP

DRWN: GLC DATE: 5-3-07
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SCALE: AS SHOWN

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INTERIM RESPONSE ACTION WORKPLAN
SCCC AND DIAMOND SITES
KEARNY, NEW JERSEY

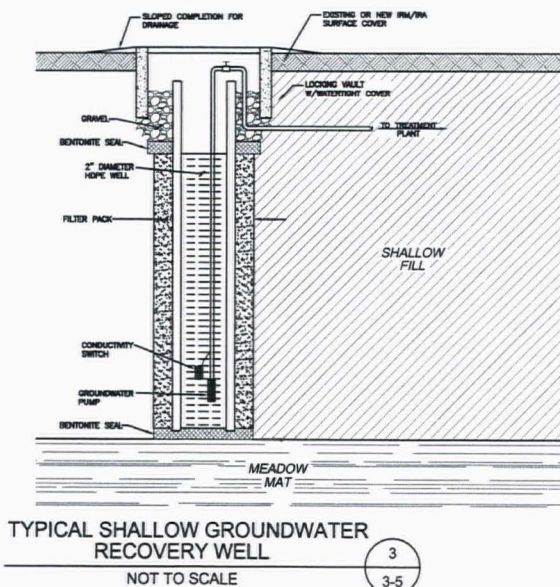
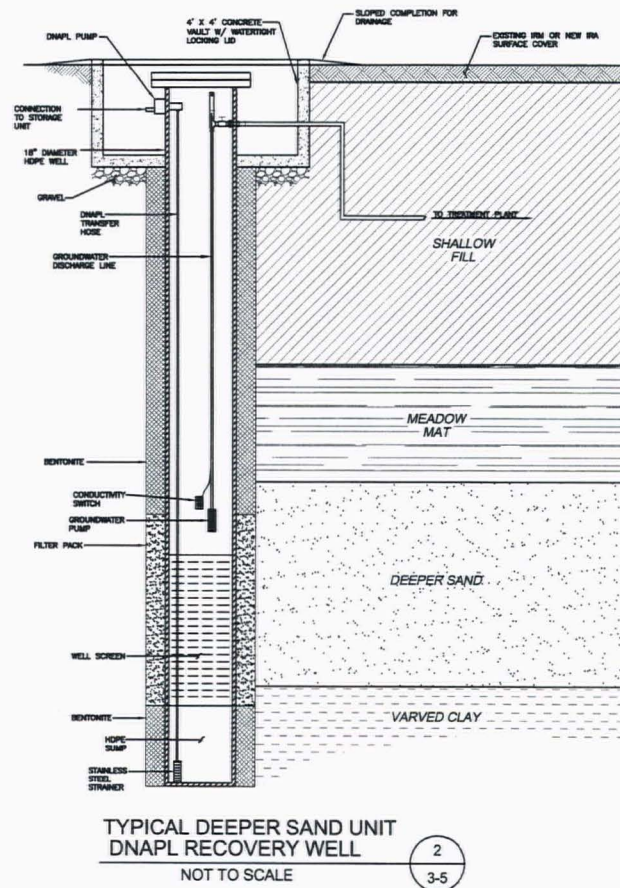
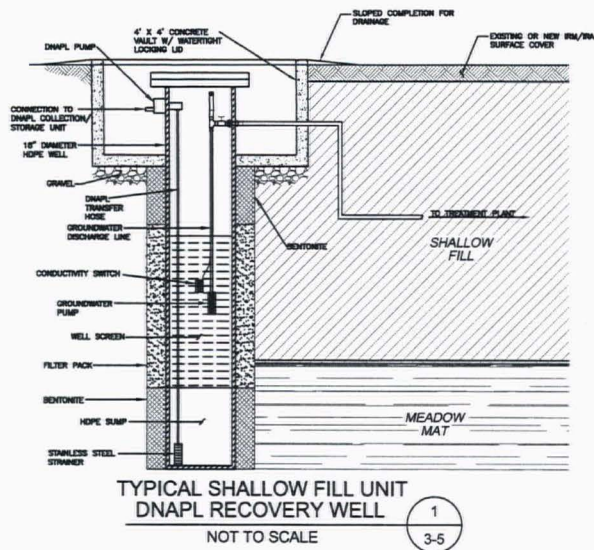
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PROCESS FLOW DIAGRAM -
GROUNDWATER TREATMENT

PROJECT NO: 07-417
FIGURE 3-4



PENINSULA RESTORATION GROUP

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INTERIM RESPONSE ACTION WORKPLAN
SCCC AND DIAMOND SITES
KEARNY, NEW JERSEY

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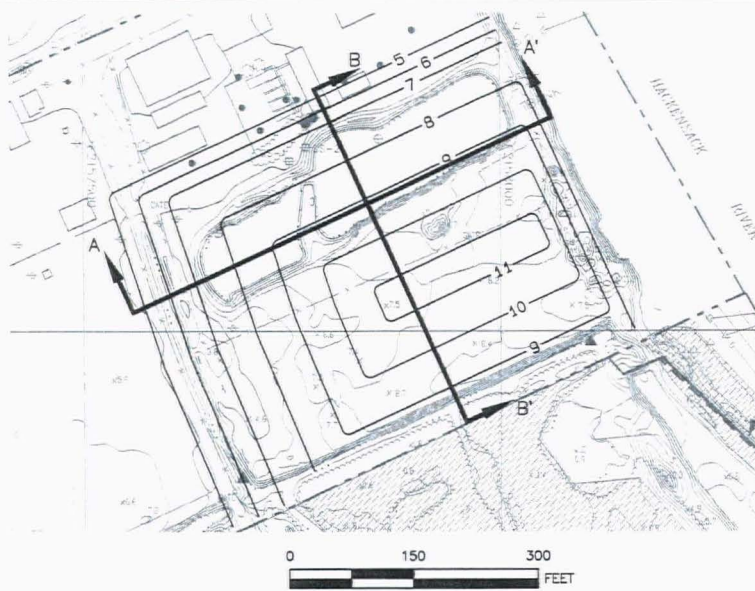
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200 THIRD AVENUE
CARLISLE, PA 15109

DNAPL AND SHALLOW GROUNDWATER
RECOVERY WELL DETAILS

PROJECT NO: 07-417
FIGURE 3-5

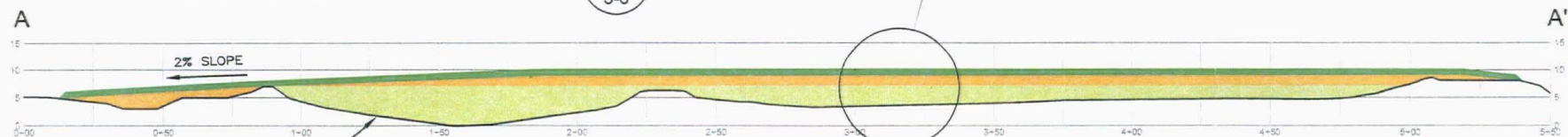
REV #	DATE	DESCRIPTION	APPD

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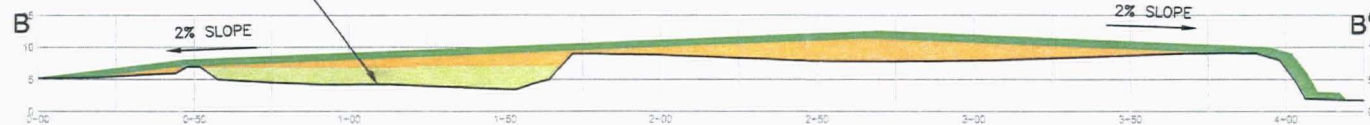
PROPOSED SCCC SITE IRA CONSOLIDATION AREA - PLAN VIEW
SCALE AS SHOWN

1
3-6



PROPOSED SCCC SITE IRA CONSOLIDATION AREA - SECTION A-A'
VERTICAL EXAGGERATION 2:1

2
3-6



PROPOSED SCCC SITE IRA CONSOLIDATION AREA - SECTION B-B'
VERTICAL EXAGGERATION 2:1

3
3-6

LEGEND

- PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- FENCELINE
- TANK
- BUSH/TREELINE
- RIVER/CHANNEL/LAGOON
- EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- PROPOSED GROUND SURFACE ELEVATION AFTER CONSOLIDATION
- SPOT ELEVATION

1. INTERIM SURFACE COVER. SEE FIGURE 3-8.
2. NEAR-SHORE SEDIMENT/SLURRY WALL SPOILS/TRENCH SPOILS.
3. SOUTH DITCH SEDIMENT.
4. COARSE CLEAN FILL MATERIAL FOR "SOFT" SPOTS AS NECESSARY.
5. EXISTING LAGOON SOLIDS.
- A. GEOTEXTILE SEPARATION LAYER.
- B. GEOGRID FOR "SOFT" SPOTS AS NECESSARY.

NOTES:

1. SURFACE COVER TO BE FEATHERED TO ABUT EXISTING STRUCTURES AS NECESSARY.
2. PERIMETER DRAINAGE TO BE CONSTRUCTED TO ACCOMMODATE RUNOFF.

PENINSULA RESTORATION GROUP

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CHKD: RLM	DATE: 5-3-07
APPD: JSZ	DATE: 5-3-07
SCALE: AS SHOWN	



INTERIM RESPONSE ACTION WORKPLAN
SCCC AND DIAMOND SITES
KEARNY, NEW JERSEY

ISSUE DATE:

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300 THIRD AVENUE
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PROPOSED LAGOON BACKFILLING
AND CONSOLIDATION AREA DETAILS

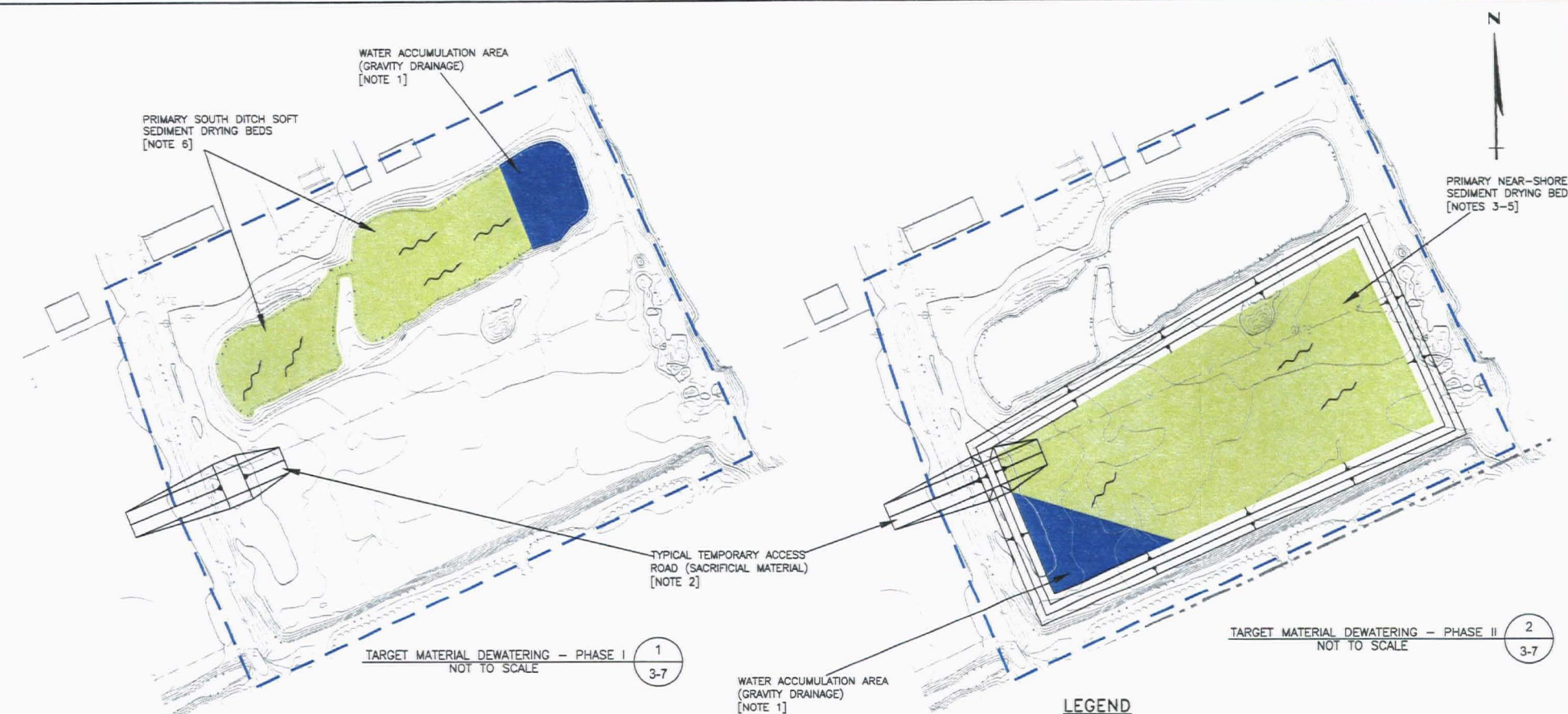
PROJECT NO: 07-417
FIGURE 3-6

SCALE IN FEET

REV	DATE	DESCRIPTION	APPRO

REFERENCE:

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- NOTES:
1. ACCUMULATED WATER WILL EITHER BE TREATED ONSITE AND DISCHARGED TO THE HACKENSACK RIVER UNDER A GENERAL PERMIT OR WILL BE TREATED OFFSITE.
 2. ACCESS ROADS TO BE PLACED TO BEST ACCOMMODATE MATERIAL MANAGEMENT. MATERIALS TO BE REUSED AS GENERAL FILL IN THE CONSOLIDATION AREA.
 3. FINAL CONFIGURATION OF PHASE II DRYING BED CONTINGENT UPON REMEDIAL COMPONENT LOGISTICS.
 4. CONTAINMENT BERMS TO BE CONSTRUCTED AS NECESSARY BASED ON EXISTING TOPOGRAPHY. MATERIALS TO BE REUSED AS PART OF GENERAL FILL IN THE CONSOLIDATION AREA.
 5. NEAR-SHORE SEDIMENT DRYING BED TO BE GRADED TO DRAIN AS SHOWN.
 6. LAGOON DEWATERING OPERATIONS TO BE COMPLETED PRIOR TO PHASE I.
 7. WORKING PLATFORM TO BE CONSTRUCTED ALONG RIVER FRONTAGE AS NECESSARY TO ACCOMMODATE EXCAVATION.
 8. TARGET MATERIALS TO BE TRUCKED AND END-DUMPED OR PLACED DIRECTLY FROM EXCAVATOR INTO DRYING BED CONTINGENT UPON POINT OF ORIGIN. TARGET MATERIAL TO BE SPREAD WITH EXCAVATOR BUCKET AND CONDITIONED AS NECESSARY.
 9. FENCING TO BE REMOVED AS NECESSARY TO ACCOMMODATE CONSTRUCTION/ACCESS. FENCING TO BE REPLACED IN KIND.

REFERENCE: 1. HORIZONTAL REFERENCE: NEW JERSEY STATE PLAN COORDINATES (NAD 1927).
2. VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).

LEGEND

- LIMITS OF PROPOSED CONSOLIDATION AREA
- BUILDING/STRUCTURE
- - - FENCELINE
- - - BUSH/TREELINE
- - - RIVER/CHANNEL/LAGOON
- - - EXISTING GROUND SURFACE ELEVATION
- UTILITY POLE
- ~ DIRECTION OF RUNOFF
- ▲ TOP OF SLOPE
- ▼ TOE OF SLOPE

0 100 200
FEET

PENINSULA RESTORATION GROUP

DRAWN: SSC DATE: 11/5/07
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INTERIM RESPONSE ACTION WORKPLAN
SCCC AND DIAMOND SITES
KEARNY, NEW JERSEY

ISSUE DATE:

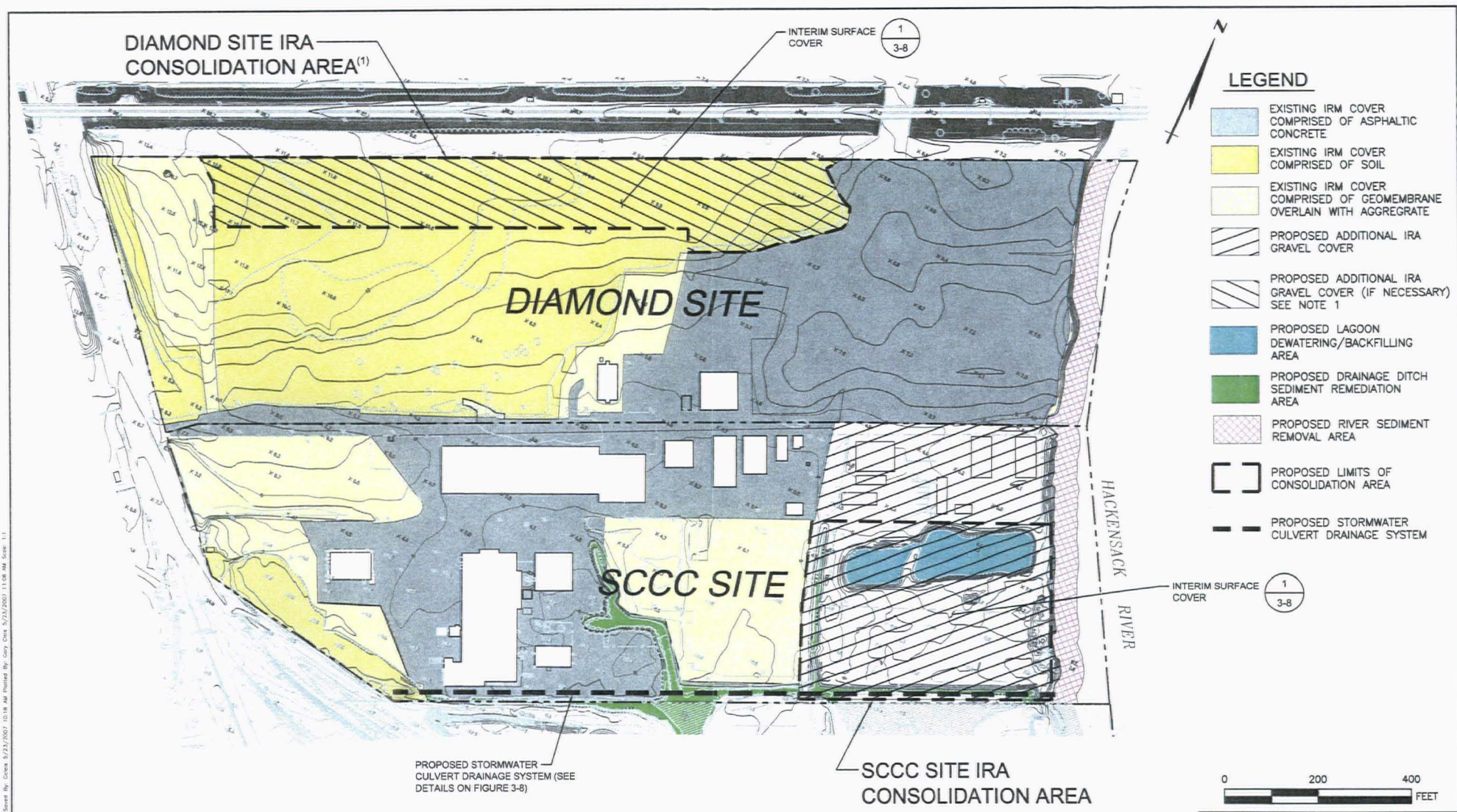
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TARGET MATERIAL DEWATERING
OPERATIONS

PROJECT NO: 07-417

FIGURE 3-7

REV #	DATE	DESCRIPTION	APPRO



- LEGEND**
- EXISTING IRM COVER COMPRISED OF ASPHALTIC CONCRETE
 - EXISTING IRM COVER COMPRISED OF SOIL
 - EXISTING IRM COVER COMPRISED OF GEOMEMBRANE OVERLAIN WITH AGGREGATE
 - PROPOSED ADDITIONAL IRA GRAVEL COVER
 - PROPOSED ADDITIONAL IRA GRAVEL COVER (IF NECESSARY SEE NOTE 1)
 - PROPOSED LAAGOON DEWATERING/BACKFILLING AREA
 - PROPOSED DRAINAGE DITCH SEDIMENT REMEDIATION AREA
 - PROPOSED RIVER SEDIMENT REMOVAL AREA
 - PROPOSED LIMITS OF CONSOLIDATION AREA
 - PROPOSED STORMWATER CULVERT DRAINAGE SYSTEM

NOTES:

1. DIAMOND SITE CONSOLIDATION AREA AND COVER SYSTEM TO BE USED ONLY IF SLURRY WALL SPOILS ARE PLACED IN THIS AREA CONTINGENT UPON AOC POLICY DETERMINATION OR WASTE CLASSIFICATION.



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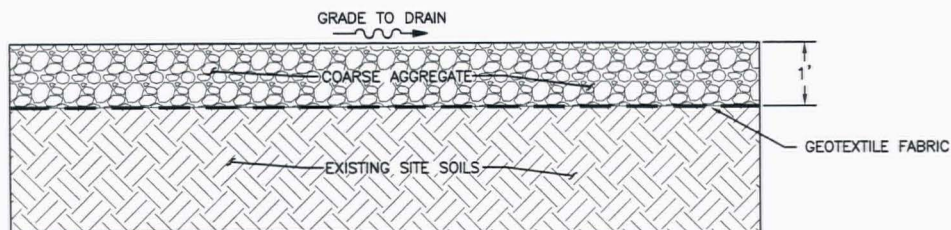
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INTERIM RESPONSE ACTION WORKPLAN
SCCC AND DIAMOND SITES
KEARNY, NEW JERSEY

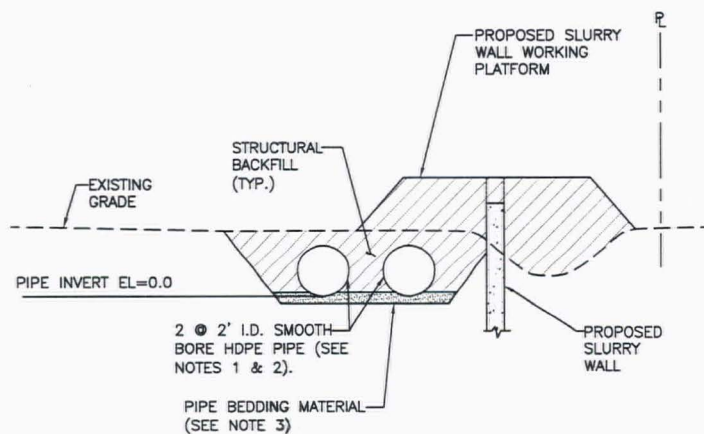
INTERIM SURFACE COVER AND STORM SEWER PLAN	PROJECT NO: 07-417 FIGURE 3-7
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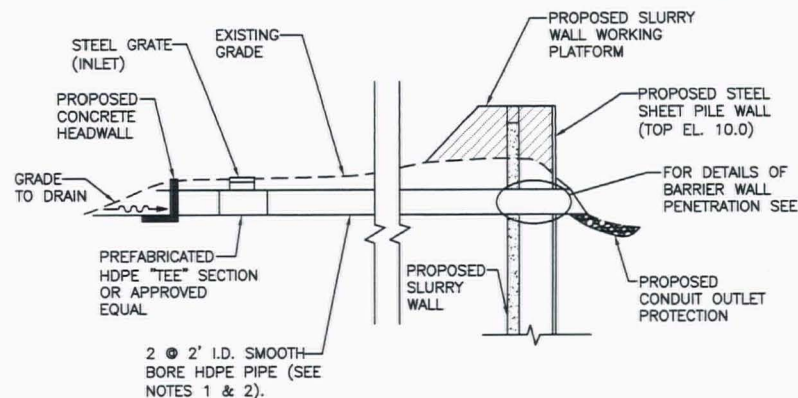
INTERIM SURFACE COVER DETAIL
NOT TO SCALE

1
3-8



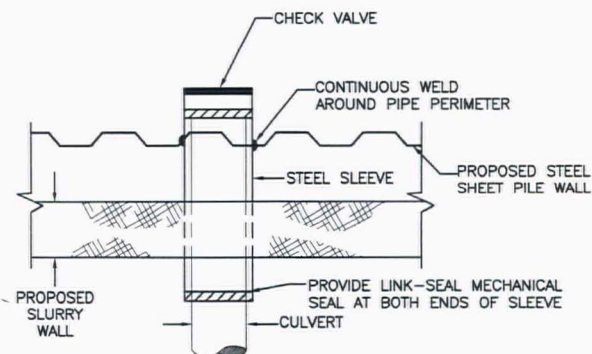
PROPOSED CULVERT CROSS SECTION
NOT TO SCALE

3
3-8



PROPOSED CULVERT PROFILE
NOT TO SCALE

2
3-8



PLAN VIEW OF CULVERT
CROSSING OF BARRIER WALL DETAIL
NOT TO SCALE

4
3-8

NOTES:

1. THE CULVERT WILL BE INSTALLED WITH A SLOPE OF 0% AT INV. EL. 0.0 MSL.
2. HDPE PIPE JOINTS WILL BE BUTT-FUSED TO PREVENT POTENTIAL GROUNDWATER INFILTRATION.
3. PIPE BEDDING (AND BACKFILL) WILL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. ANTI-SEEP COLLARS WILL BE INSTALLED ON CULVERTS TO PREVENT FLOW THROUGH GRANULAR BACKFILL.

REV	DATE	DESCRIPTION	APPRO

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200 THIRD AVENUE
CHICAGO, IL 60601

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INTERIM RESPONSE ACTION WORKPLAN
SCCC AND DIAMOND SITES
KEARNY, NEW JERSEY

INTERIM SURFACE COVER
AND STORM SEWER DETAILS

PROJECT NO: 07-417
FIGURE 3-8

